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# Commutative Formal Groups

**the theory of commutative formal groups over fields of ...** - 2. the topic of this article is the theory of commutative formal groups over fields of finite characteristic. the papers by dieudonne' in which the basic results on the structure of formal groups were first obtained show clearly that the commutative and non-commutative cases differ sharply in the nature of the results, the methods used, and the **commutative formal groups { exercises** - 2 commutative formal groups { exercises (22) let  $q = ph$ . let  $f \in h$  be the formal group law with logarithm  $p \in \mathbb{Z} \langle x \rangle$  now that  $f \in h$  is indeed a formal group over  $\mathbb{Z}$ . (23) let  $f \in h$  be the reduction of  $f \in h \pmod{p}$  (so  $f \in h$  is a formal group over  $\mathbb{F}_p$ ) now that  $f \in h$  satisfies  $[p](x) = x^q$  therefore it has height  $h$ . **cartier theory of commutative formal groups - univ-rennes1** - the theory of commutative formal groups plays an important role in algebraic number theory and algebraic geometry over a field of characteristic  $p$ . the french mathematician p. cartier found a new approach to this theory which is simpler and more general than others and which has interesting applications to abelian varieties. **one-dimensional formal groups - brandeis university** - one-dimensional formal groups carl erickson in this wednesday night section for algebraic number theory, we will go through basic facts about one dimensional formal groups and hopefully get to see how they might be useful and interesting. all rings are commutative with identity. **formal groups and stable homotopy of commutative rings** - formal groups and stable homotopy of commutative rings stefanschwede mathematisches institut, universit"at bonn 53115 bonn, germany email: schwede@math.uni-bonn abstract we explain a new relationship between formal group laws and ring spectra in stable homotopy theory. we study a ring spectrum denoted  $db$  which **formal complex multiplication in local fields crystalline ...** - on formal groups. in arithmetic applications, the differentials lead directly to the theory of dieudonne modules. we return to the setting of a formal group law  $g$  over an arbitrary commutative ring  $a$ . the space of differential forms on  $g$  is the  $a$ -module  $1 \oplus g = a$  of formal differentials  $p(t)dt$ , where  $p(t) \in \mathbb{Z} \langle t \rangle$ . **on the moduli stack of commutative, -parameter formal lie ...** - prime  $p$  on the stacks of buds and formal lie groups. introduction the aim of this paper is to explicate some of the basic algebraic geometry of the moduli stack of commutative, 1-parameter formal lie groups. formal group laws have received extensive study in the mathematical literature for well over 50 years. **formal group laws - swcthizona** - problems about formal groups and cohomology theories arizona winter school 2019 vesna stojanoska 1. formal group laws in this document, a formal group law over a commutative ring  $ris$  always com- **on the moduli stack of commutative, -parameter formal groups** - on the moduli stack of commutative, 1-parameter formal groups brian d. smithling abstract. we commence a general algebro-geometric study of the moduli stack of commutative, 1-parameter formal groups. we emphasize the pro-algebraic structure of this stack: it is the inverse limit, over varying  $n$ , of **lecture 23-formal groups - math.harvard** - of commutative  $r$ -algebras), then it is isomorphic to the formal  $a$  ne line  $ab1 \text{ 'spf}(r[[t]])$ . suppose that  $f$  and  $f_0$  are formal group laws, defining formal groups  $g$  and  $g_0$ , respectively. a homomorphism of formal groups from  $g$  and  $g_0$  is a natural transformation of group-valued functors  $h: g \rightarrow g_0$ . **formal groups and stable homotopy of commutative rings** - formal groups and stable homotopy of commutative rings 339 section 8 for later use we define a map  $g: z(g) \rightarrow \text{map}(g/h\mathbb{Z}; h\mathbb{Z} \rightarrow g) \rightarrow hg \text{ st}(z)$  for every functor  $g$  from the category of finitely generated free abelian groups to the category of all abelian groups; the important case is when  $g$  is a symmetric power functor  $b \otimes_{\mathbb{Z}} \mathbb{Z}(g)$  is the classifying space of the groupoid

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